

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A dermal tissue grafting system comprising:

a tissue particle harvester assembly for cutting tissue particles from dermal tissue, wherein the tissue particle harvester assembly is configured to cut the dermal tissue into tissue particles ranging between 50 and 300 microns;

a tissue particle collector for receiving, separating and collecting the tissue particles; and

a chambered dressing for receiving the collected tissue particles and culturing the growth of a dermal tissue graft.

Claim 2 (currently amended): The dermal tissue grafting system of claim 1, wherein the tissue particle harvester assembly comprises:

a harvester housing having an interior space, the housing for interfacing with a dermal tissue sample from which tissue particles are to be harvested, and for holding a tissue cutting tool in a proper position relative to the dermal tissue sample;

a tissue cutting tool having a cutting surface, the cutting surface for interfacing with and cutting tissue particles with a median size of about 100 microns ~~of an appropriate size~~ from the tissue sample; and

a drive means for rotating the tissue-cutting tool.

Claim 3 (original): The tissue particle harvester assembly of claim 2, wherein the harvester housing has an orifice for pressing against and receiving a dermal tissue layer of the tissue sample.

Claim 4 (original): The tissue particle harvester assembly of claim 2, wherein the tissue-cutting tool further comprises a rotatable shaft having a drive end for engaging the drive means and a tool end for mounting the tissue-cutting surface.

Claim 5 (original): The tissue particle harvester assembly of claim 3, wherein a portion of said tissue-cutting surface projects from said orifice, and wherein said orifice is adjustably engaged with said harvester such that said tissue-cutting surface projects from said harvester in the range of about 0.01 – 0.9mm.

Claim 6 (currently amended): The tissue particle harvester assembly of claim ~~[[3]]~~ 4, wherein said drive end is adjustable to project a portion of said tissue-cutting surface through said orifice of said harvester a distance in the range of about 0.01 – 0.9mm.

Claim 7 (original): The tissue particle harvester assembly of claim 2, wherein the tissue cutting tool further comprises a rotatable shaft having a drive end for engaging the drive means and a tool end for mounting a cutting drum, the cutting drum having an axis disposed coaxially with the tool end of the rotatable shaft and having an outer circumferential surface defined by the tissue cutting surface and an end-to-end width closely receivable in a width of the interior space of the housing.

Claim 8 (previously presented): The tissue particle harvester assembly of claim 2, wherein the tissue cutting tool further comprises a rotatable shaft having a drive end for engaging the drive means and a tool end for mounting

a cutting drum, the cutting drum having an axis disposed coaxially with the tool end of the rotatable shaft and having an outer circumferential surface and a diameter closely receivable in a width of the interior space of the housing, and having a tapered drum end distal from the drive end of the rotatable shaft.

Claim 9 (original): A method for using a dermal tissue grafting system comprising the steps of:

- accessing a dermal tissue sample with a tissue harvester assembly of claim 1;
- processing the tissue sample using the tissue harvester assembly to produce tissue particles;
- collecting the tissue particles from the tissue harvester assembly in a tissue particle collector; and
- seeding a chambered dressing with the collected tissue particles from the particle collector and culturing the growth of a dermal tissue graft.

Claim 10 (currently amended): A tissue grafting system comprising:

- a tissue particle collector;
- a nanograft cell; and
- a tissue particle harvester assembly comprising a housing, a cutting tool, and a driver configured to rotate the cutting tool, wherein the housing is configured to be removed from the tissue particle harvester assembly while the cutting tool is contained within the housing.

Claim 11 (previously presented): The tissue grafting system of claim 10 wherein the nanograft cell comprises a chamber configured be secured around a wound periphery during use.

Claim 12 (currently amended): The tissue grafting system of claim 10 wherein the housing comprises a first port and the nanograft cell comprises a second port.

Claim 13 (currently amended): Tissue grafting system of claim ~~[[10]]~~ 12 wherein the first port and the second port are configured to receive a syringe. ~~nanograft cell comprises a portion that is substantially transparent.~~

Claim 14 (currently amended): The tissue grafting system of claim 10 wherein the housing is configured to receive a gasketed cap. ~~comprises an opening and the cutting tool is proximal to the opening.~~

Claim 15 (previously presented): The tissue grafting system of claim 14 wherein a distance between the opening and the cutting tool is adjustable.

Claim 16 (previously presented): The tissue grafting system of claim 10 wherein the cutting tool comprises a rotary drum.

Claim 17 (previously presented): The tissue grafting system of claim 10 wherein the cutting tool comprises a scallop hypo-tube.

Claim 18 (previously presented): The tissue grafting system of claim 10, further comprising a particle retriever, wherein the particle retriever is configured to retrieve a plurality of tissue particles from the tissue particle collector and place the plurality of tissue particles in the nanograft cell.

Claim 19 (previously presented): The tissue grafting system of claim 10, further comprising a flushing container configured to remove a plurality of tissue particles from the housing.

Claim 20 (previously presented): The tissue grafting system of claim 10,
wherein the driver is a drive motor.